

## Product datasheet for **RC237785**

### **P2Y9 (LPAR4) (NM\_001278000) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	P2Y9 (LPAR4) (NM_001278000) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	P2Y9
Synonyms:	GPR23; LPA4; P2RY9; P2Y5-LIKE; P2Y9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC237785 representing NM_001278000 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGTGACAGAAGATTCATTGACTTCCAATCCAAGATTCAAATCAAGCCTCAGACCCAGGTTGGGCA  
ATGCTACTGCCAATAATACTTGCATTGTTGATGATTCTTCAAGTATAATCTCAATGGTGTCTACAG  
TGTTGATTCATCTTGGGCTGATAACCAACAGTGTCTCTGTTTGTCTCTGTTCCGCATGAAAATG  
AGAAGTGAGACTGCTATTTTATACCAATCTAGCTGTCTGATTTGCTTTTGTCTGTACTACTCTT  
TAAAAATATTTACAACCTCAACCGCCACTGGCCTTTGGTGACACCCTCTGCAAGATCTCTGAACTGC  
ATTCCTTACCAACATCTATGGGAGCATGCTCTTCTCACCTGTATTAGTGTGGATCGTTTCTGGCCATT  
GTCTATCCTTTTCGATCTCGTACTATTAGGACTAGGAGGAATTCGCCATTGTGTGTGCTGGTGTCTGGA  
TCCTAGTCCTCAGTGGCGGTATTCAGCCTCTTGTGTTTCCACCACTAATGTCAACAATGCAACCACCAC  
CTGCTTTGAAGGCTTCTCCAAACGTGTCTGGAAGACTATTTATCCAAGATCACAATATTTATTGAAGTT  
GTTGGGTTTATCATTCTCTAATATTGAATGTCTTGTCTTCTGTGGTGTGAGAAGCTTTCGCAAGC  
CTGCTACTCTGTCTCAAATGGGACCAATAAGAAAAAGTACTGAAAATGATCACAGTACATATGGCAGT  
CTTTGTGGTATGCTTTGTACCTACAACCTGTCTCTTCTGTATGCCCTGGTGGCTCCCAAGCTATT  
ACTAATTGCTTTTGGAAAGATTTGCAAAGATCATGTACCAATCACCTGTGCTGCAACTCTGAAT  
GTTGTTTTGACCCTTTCATCTATTACTTACCCTTGAATCCTTTTTCAGAAGTCTTCTACATCAATGCCCA  
CATCAGAATGGAGTCCCTGTTTAAAGACTGAAACACCTTTGACCACAAAGCCTTCCCTTCCAGCTATTCAA  
GAGGAAGTGAGTGATCAAACAACAATAATGGTGGTGAATTAATGCTAGAATCCACCTTT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC237785 representing NM\_001278000  
Red=Cloning site Green=Tags(s)

MGDRRFIDFQFQDSNSSLRPRLGNATANNTCIVDDSFKYNLGAVYSVVFILGLITNSVSLFVFCFRMKM  
 RSETAIFITNLAVSDLLFVCTLPFKIFYNFNHRHWPFGDTLCKISGTAFLTNIYGSMLFLTCISVDRFLAI  
 VYPFRSRTIRTRNSAIVCAGVWILVLSGGISASLFFSTTNVNNATTTCEGFGSKRVWKTYLSKITIFIEV  
 VGFIIPLILNVSCSSVLRTRLRKPATLSQIGTNKKVLMITVHMAVFVVCVPYNSVFLYALVRSQAI  
 TNCFLERFAKIMYPITLCLATLNCCDFPIYYFTLESFQKSFYINAHIRMESLFKTETPLTTKPSLPAIQ  
 EEVSDQTTNNGGELMLESTF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6110\\_h02.zip](https://cdn.origene.com/chromatograms/mk6110_h02.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001278000

**ORF Size:** 1110 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

**Reconstitution Method:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

**RefSeq:** [NM\\_001278000.1](#), [NP\\_001264929.1](#)

**RefSeq Size:** 2155 bp

**RefSeq ORF:** 1113 bp

**Locus ID:** 2846

**UniProt ID:** [Q99677](#)

**Cytogenetics:** Xq21.1

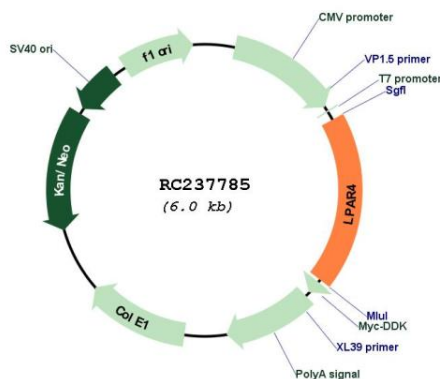
**Protein Families:** Druggable Genome, GPCR, Transmembrane

**Protein Pathways:** Neuroactive ligand-receptor interaction

**MW:** 41.9 kDa

**Gene Summary:** This gene encodes a member of the lysophosphatidic acid receptor family. It may also be related to the P2Y receptors, a family of receptors that bind purine and pyrimidine nucleotides and are coupled to G proteins. The encoded protein may play a role in monocytic differentiation. [provided by RefSeq, Feb 2009]

## Product images:



Circular map for RC237785